

Title (en)
PUFA COVERED IMPLANTS

Title (de)
MIT PUFA BESCHICHTETE IMPLANTATE

Title (fr)
IMPLANTS RECOUVERTS D'ACIDE GRAS POLYINSATURÉ

Publication
EP 2310059 A2 20110420 (EN)

Application
EP 09753968 A 20090529

Priority
• EP 2009056666 W 20090529
• US 5697808 P 20080529

Abstract (en)
[origin: WO2009144313A2] A medical or dental implant which contains a metal material selected from the group consisting of titanium or an alloy thereof, wherein at least part of the surface of the metal material is coated with a layer of a polyunsaturated fatty acids (PUFA). In a preferred embodiment, the implant has been exposed to UV radiation for at least 30 seconds before, simultaneously with and/or after the coating with PUFA. Depending on the concentration of polyunsaturated fatty acids on the surface, at least parts of the implant exhibits improved effect on adhesion of mineralized and/or hard tissue, such as on bone remodeling and/or improved biocompatibility, or alternatively inhibits adhesion of mineralized and/or hard tissue to the implant. The metal material is preferably titanium, the polyunsaturated fatty acid is preferably EPA.

IPC 8 full level
A61L 27/06 (2006.01); **A61L 27/28** (2006.01); **A61L 27/34** (2006.01); **A61L 27/50** (2006.01); **A61L 31/02** (2006.01); **A61L 31/08** (2006.01); **A61L 31/14** (2006.01)

CPC (source: EP US)
A61K 31/593 (2013.01 - EP US); **A61L 27/06** (2013.01 - EP US); **A61L 27/28** (2013.01 - EP US); **A61L 27/50** (2013.01 - EP US); **A61L 27/54** (2013.01 - EP US); **A61L 31/022** (2013.01 - EP US); **A61L 31/08** (2013.01 - EP US); **A61L 31/14** (2013.01 - EP US); **A61L 31/16** (2013.01 - EP US); **A61P 19/08** (2017.12 - EP); **A61L 2300/412** (2013.01 - EP US); **A61L 2300/428** (2013.01 - EP US); **A61L 2430/02** (2013.01 - EP US)

Citation (search report)
See references of WO 2009144313A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
WO 2009144313 A2 20091203; **WO 2009144313 A3 20100722**; CY 1118636 T1 20170712; DK 2310059 T3 20170220; EP 2310059 A2 20110420; EP 2310059 B1 20161116; ES 2627290 T3 20170727; HR P20170146 T1 20170407; HU E030835 T2 20170628; LT 2310059 T 20170327; PL 2310059 T3 20170831; PT 2310059 T 20170221; SI 2310059 T1 20170426; US 2011166670 A1 20110707; US 2013017234 A1 20130117; US 8821568 B2 20140902

DOCDB simple family (application)
EP 2009056666 W 20090529; CY 171100202 T 20170215; DK 09753968 T 20090529; EP 09753968 A 20090529; ES 09753968 T 20090529; HR P20170146 T 20170130; HU E09753968 A 20090529; LT 09753968 T 20090529; PL 09753968 T 20090529; PT 09753968 T 20090529; SI 200931597 A 20090529; US 201213558971 A 20120726; US 99513209 A 20090529